

## Slide-On BMA Plug Bulkhead to N Male Cable RG-316 Coax in 60 Inch

The BMA plug slide-on bulkhead to type N male 60 inch cable using RG-316 coax, part number FMCA1659-60, from Fairview Microwave is in-stock and ships same day. This Fairview BMA to type N cable assembly has a plug to male gender configuration with 50 ohm flexible RG316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1659-60 BMA plug to type N male cable assembly operates to 3 GHz. Our RF cable assembly with BMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

### Electrical Specifications

| Description             | Min | Typ | Max   | Units |
|-------------------------|-----|-----|-------|-------|
| Frequency Range         | DC  |     | 3     | GHz   |
| VSWR                    |     |     | 1.4:1 |       |
| Return Loss             |     |     | 15.56 | dB    |
| Velocity of Propagation |     | 69  |       | %     |
| Operating Voltage (AC)  |     |     | 250   | Vrms  |
| Jacket Spark            |     |     | 2,000 | Vrms  |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4  | F5  | Units |
|-----------------------|------|------|------|-----|-----|-------|
| Frequency             | 0.1  | 0.25 | 0.5  | 1   | 3   | GHz   |
| Insertion Loss (Typ.) | 0.75 | 0.95 | 1.55 | 2.1 | 3.1 | dB    |

### Mechanical Specifications

#### Cable Assembly

|          |                   |
|----------|-------------------|
| Length*  | 60 in [152.4 cm]  |
| Diameter | 0.8 in [20.32 mm] |

#### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG316                      |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver  |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 1                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Tan                   |
| Jacket Diameter                      | 0.098 in [2.49 mm]         |



### Configuration:

- Slide-On BMA Plug Bulkhead
- N Male
- RG316

### Features:

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket

### Applications:

- General Purpose
- Laboratory Use
- Rack and Panel
- BMA Cable RF Backplanes
- Phased Array Interconnects
- High Speed Switching Networks
- Blind Mate BMA Test

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## Connectors

| Description                     | Connector 1                | Connector 2     |
|---------------------------------|----------------------------|-----------------|
| Type                            | BMA Plug                   | N Male          |
| Mount Method                    | Bulkhead                   |                 |
| Specification                   |                            | MIL-STD-348A    |
| Impedance                       | 50 Ohms                    | 50 Ohms         |
| Connection Method               | Slide-On                   |                 |
| Contact Material & Plating      | Beryllium Copper, Gold     | Brass, Gold     |
| Contact Plating Spec.           | 51.18µ in. minimum         | 30 µin minimum  |
| Dielectric Type                 | PTFE                       | PTFE            |
| Outer Cond Material & Plating   | Passivated Stainless Steel |                 |
| Body Material & Plating         | Passivated Stainless Steel | Brass, Nickel   |
| Body Plating Spec.              |                            | 100 µin minimum |
| Coupling Nut Material & Plating |                            | Brass, Nickel   |
| Coupling Nut Plating Spec.      |                            | 100 µin minimum |
| Hex Size                        | 8 mm                       |                 |

### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

## Environmental Specifications

### Temperature

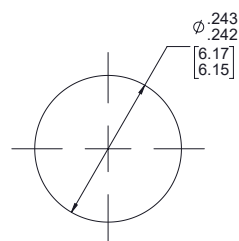
Operating Range -55 to +125 deg C

## Compliance Certifications (see [product page](#) for current document)

## Plotted and Other Data

Notes:

## Typical Performance Data



MOUNTING HOLE



## How to Order

Part Number Configuration:

**FMCA1659 - xx uu**

\_\_\_\_\_ cm = Centimeters  
 \_\_\_\_\_ <blank> = Inches  
 \_\_\_\_\_ Length

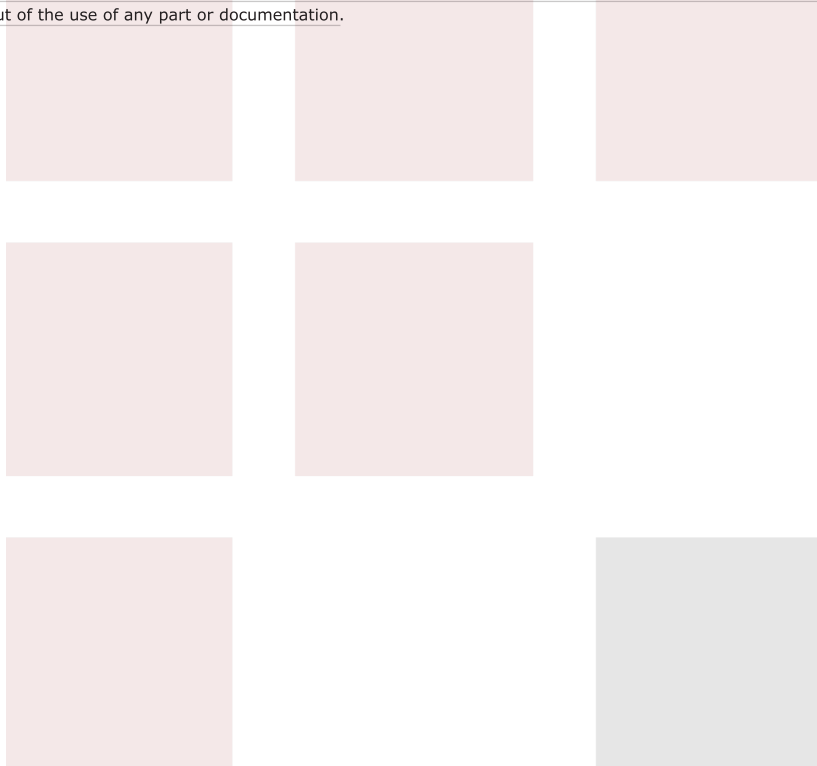
Example: FMCA1659-12 = 12 inches long cable  
 FMCA1659-100cm = 100 cm long cable

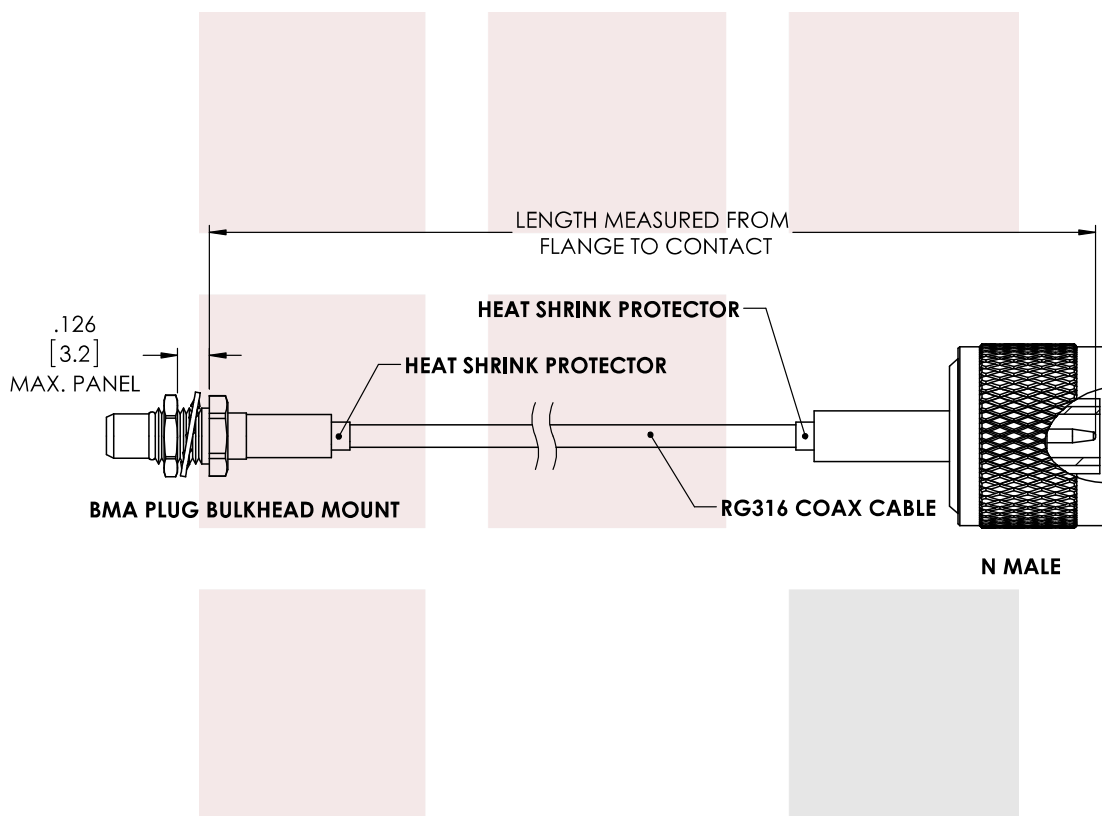
Slide-On BMA Plug Bulkhead to N Male Cable RG-316 Coax in 60 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Slide-On BMA Plug Bulkhead to N Male Cable RG-316 Coax in 60 Inch FMCA1659-60](#)

URL: <https://www.fairviewmicrowave.com/bma-plug-n-male-cable-rg316-coax-fmca1659-60-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.





**STANDARD TOLERANCES**

.X ±0.2  
.XX ±0.01  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

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**NOTES:**

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

**TITLE**

Slide-On BMA Plug Bulkhead to N Male Cable RG-316  
Coax in 60 Inch

**DWG NO**

FMCA1659

**CAGE CODE**

3FKR5

CAD FILE 01/02/18

SHEET

SCALE N/A

SIZE A

CN2245